

# PATENT ABSTRACTS OF JAPAN

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## (54) SEGMENT DETECTING METHOD FOR DRAWING INPUT DEVICE

### (57)Abstract:

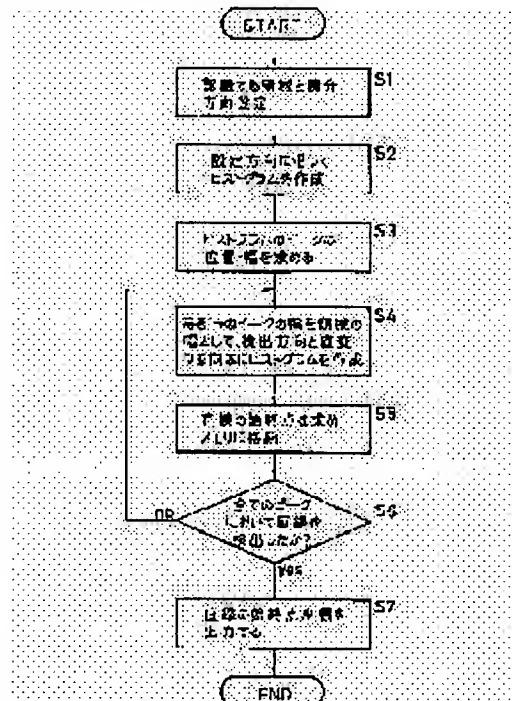
PURPOSE: To precisely recognize parallel lines even if they are close to each other.

CONSTITUTION: In a step S1, an area to be recognized from image information and the direction of a segment are set. In a step S2, the frequency distribution

(histogram) of an image in the set direction in the set area is generated. In a step S3, the positions of peaks of the histogram are detected and the mean width of the peaks is found. In a step S4, a histogram is generated in an area which has the same height as the original height

and is as wide as one peak at a right angle to the direction wherein the segment is detected. Then, a straight line is detected from two orthogonal histograms in a step S5 and data on it are stored in a memory. In a

step S6, it is judged whether or not the straight line is detected as to all the peaks, and in case of 'YES', the process advances to a step S7 to output the start and end point coordinates of the straight line.



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